



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEX Scheme visit www.iecex.com

Certificate No.: issue No.: Certificate history:

Status:

Date of Issue: **2009-12-25** Page 1 of 3

Applicant: **Rototech Pty Ltd.**
34-36 Kinkaid Avenue NORTH PLYMPTON SA 5037 Australia
Australia

Electrical Apparatus: **Explosion-proof brake three-phase induction motor Type YB2EJ-132... and 160...**
Optional accessory:

Type of Protection: **Flameproof enclosures "d"**

Marking: **Ex d IIBT4 S2 25min / T5 S2 18min**

Approved for issue on behalf of the IECEX Certification Body: **Zhang Wei**

Position: **General Manager**

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District,
Beijing City, Postal code: 100037
China





IECEX Certificate of Conformity

Certificate No.: IECEx CQM 09.0014

Date of Issue: 2009-12-25

Issue No.: 0

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Manufacturer: **Rototech Pty Ltd.**
34-36 Kinkaid Avenue NORTH PLYMPTON SA 5037 Australia
Australia

Manufacturing location(s):
**Shandong Huali Motor
Group Ltd.**
89 Mingzhu Road and 89
Fuyuannan Road, Rongcheng
City, Shandong Province,
264300
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex product covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identity documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0
IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

CN/CQM/ExTR09.0014/00

Quality Assessment Report:
AU/ITA/QAR09.0003/00
CN/CQM/QAR09.0004/00



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Certificate No.: IECEx QCM 09.0014

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

1 This certificate covers the following types:

YB2EJ-132S-4, 6, 8P, YB2EJ-132M-4, 8P, YB2EJ-132M1-6P, YB2EJ-132M2-6P, YB2EJ-132S1-2P, YB2EJ-132S2-2P and

YB2EJ-160L-2, 4, 6, 8P, YB2EJ-160M1-2, 8P, YB2EJ-160M2-2, 8P, YB2EJ-160M-4, 6P

2 Structure of product

Series YB2EJ flameproof brake three-phase induction motor are intended for use in potentially explosive atmospheres, they adopt horizontal mounting and vertical mounting (foot mount, flange mount & foot and flange mount). The duty is S2, short time rating, T5 for S2 18 min and T4 for S2 25 min. The motors are adopted with total enclosed structure and insulation class F or H.

Motor is composed of main body, brake housing which the brake is contained in, and terminal box. There are terminal bushings between main body and terminal box. The material of bushing is DMC 4220#. There is a hollow screw bolt (M20x2) screwed on the M5 terminal box base, the stator thermocouple and brakes lead through this bolt into the main junction box and is encapsulated with a adhesive in the bolt. There are two cable entry in the terminal box base, by the user to select and install appropriate certified cable glands. The brake is fixed on the non-drive endshield. The endshield (drive) and terminal box lid are made of grey iron (HT250), frame, endshield (non drive), brake housing and terminal box base are made of Q235-A steel.

3 The equipment may include one or more of the following options:

- a) Fitting of Auxiliary terminal boxes.
- b) Fitting of Anti-condensation heaters.
- c) Fitting of RTD's (motor and brake).
- d) Fitting of Thermistors (motor and brake).
- e) Fitting of stainless steel fasteners.
- f) Use with Soft starter.
- g) Cooling by forced ventilation.

Rating

Rated voltage: 200-460V, 50/60Hz

Rated power: 2.2-7.5kW for YB2EJ-132; 4-18.5 kW for YB2EJ-160

IP55, IP56 or IP66

CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.